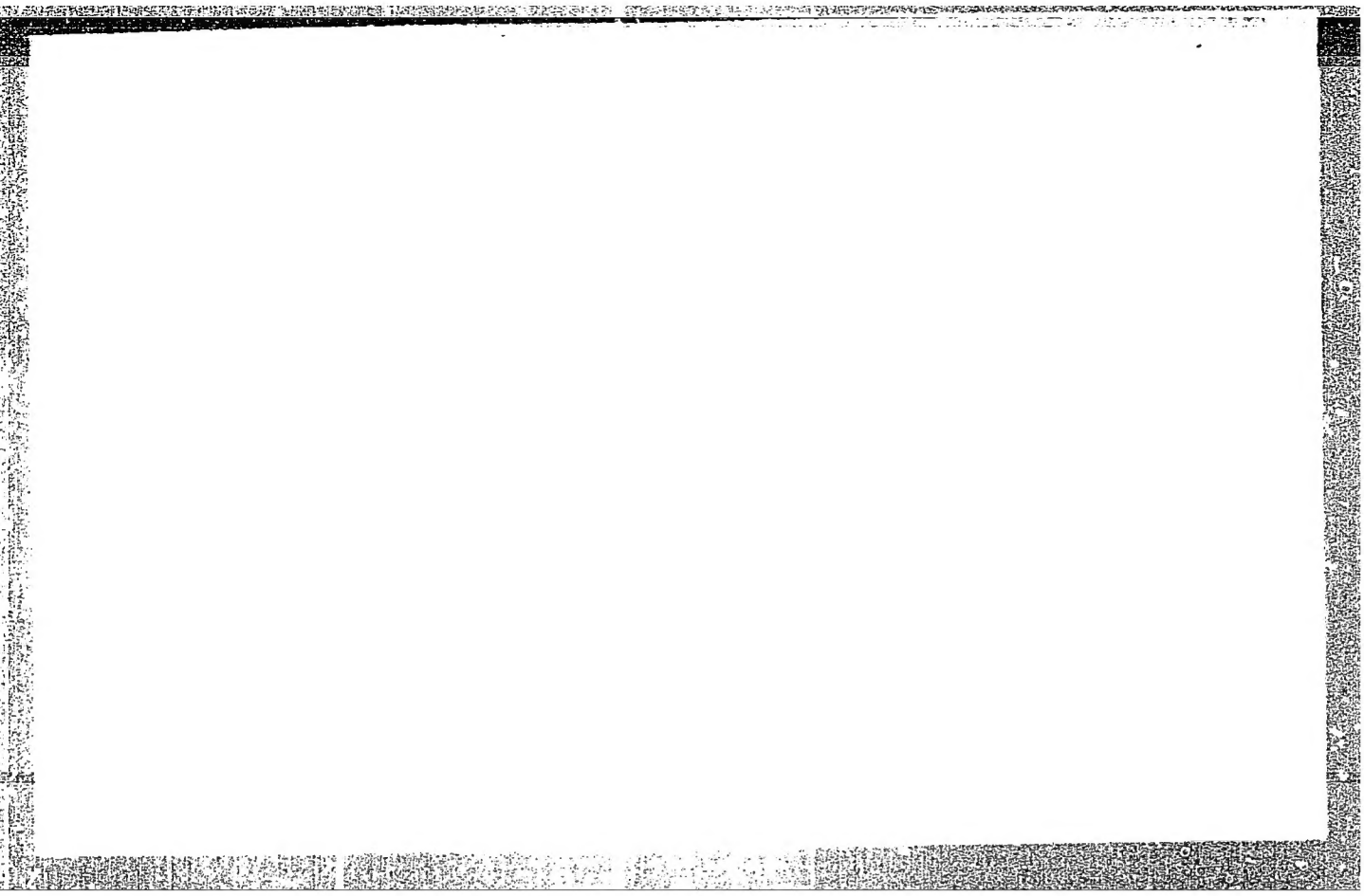

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120011-6"

BAGRATISHVILI, G.D.; TSITSISHVILI, G.V.; DEZHASHVILI, K.A.

New data on hydrogen bonding in o-nitraniline. Zhur. fiz. khim. 36 no.9:2036-2042 S '62. (MIRA 17:6)

1. Institut khimii imeni P.G. Melikishvili AN Gruzinskoy SSR.

TSITSIV, M.V., inzh.

Calculations and justifications of some parameters for the pulsating ramjet engines of aerosol sprayers. Trakt. i sel'khozmash. no.6:24-27 Je '65. (MIRA 18:7)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro Soveta narodnogo khozyaystva Moldavskoy SSR.

TEDIASHVILI, M.I.; TSITSKISHVILI, G.V.

Activity of some enzymes of the skin in tissue transplantations in hypothermia. Trudy Inst. eksp. i klin. khir. i gemat. AN Gruz. SSR 11:35-39 '63. (MIRA 17:8)

TSITSKISHVILI, A.R.

Solution of the problem involving percolation into an earth dam erected on a permeable base. Trudy Mat. inst. AN Gruz. SSR 29:271-281 '63. (MIRA 17:12)

ODISHVILI, G.Ya.; TEVDORADZE, I.Sh.; TSITSKISHVILI, G.V.

Morphological changes in the gastric mucosa following an extensive resection of the small intestine. Trudy Inst. eksp. i klin. khir. i gemat. AN Gruz. SSR 11:143-150 '63. (MIRA 17:8)

BURDZHANADZE, O.I.; KEBADZE, N.N.; TSITSKISHVILI, G.V.

Achievements of Slovak surgeons in the realm of artificial blood circulation. Trudy Inst. eksp. i klin. khir. i gemat. AN Gruz. SSR 11:311-323 '63. (MIRA 17:8)

TSITSISHVILI, G.V.; KRUPENNIKOVA, A.Yu.

Sorption of strontium ions on a sodium molecular sieve. Radiokhimiia 5 no. 6:656-660 '63. (MIRA 17:7)

TSITSISHVILI, G.V., akademik; BAGRATISHVILI, G.D.; BEZHASHVILI, K.A.; BARNABISHVILI, D.N.; SHUAKRISHVILI, M.S.

Production and study of the properties of X-type zeolites in ammonium and hydrogen ion exchange forms. Dokl. AN SSSR 152 no.5: 1136-1139 O '63. (MIRA 16:12)

1. Institut khimii im. P.G.Melikishvili AN GruzSSR. 2. AN GruzSSR (for TSitsishvili).

TSITSISHVILI, G.V., akademik; SIDAMONIDZE, Sh.I.; ZEDGENIDZE, Sh.A.

Catalytic activity of NaX, CaA, and HX zeolites in cracking and dehydration reactions. Dokl. AN SSSR 153 no.6:1395-1397 D '63. (MIRA 17:1)

1. Tbilisskiy gosudarstvennyy universitet. 2. AN GruzSSR (for TSitsishvili).

ACCESSION NR: AP4009946 S/0186/63/005/006/0656/0660

AUTHOR: Tsitsishvili, G. V.; Krupennikova, A. Yu.

TITLE: Strontium ion sorption on a sodium molecular sieve

SOURCE: Radiokhimiya, v. 5, no. 6, 1963, 656-660

TOPIC TAGS: solid adsorbents, cation adsorption, aluminosilicate polyhydrates, zeolite, synthetic zeolite, Na-zeolite, strontium nitrate, yttrium-90, gumbrine, fission fragments, Sr sup 90-Y sup 90

ABSTRACT: New information has been obtained in the investigation of the ion-exchange properties of synthetic zeolite by the radioactive indicator method, the results of the latter having been compared to those of the simultaneous chemical control method. The overwhelming effect of the carrier on the adsorption percent of the radioactive isotope can be judged from the absorption of the Sr^{2+} ions from various solutions of stable strontium concentrations as determined by a Sr^{90} indicator. When the concentration is 0.05 below normal, practically all of the strontium is absorbed and the activity of the

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ACCESSION NR: AP4009946

solution after the experiment is determined by the presence of yttrium-90 whose sorption is inhibited by the further dilution of the strontium nitrate solution. The experimental data based on strontium ion absorption reveal that the molecular sieve in the form of sodium is a cation-exchange type adsorbent with a high absorption capacity. The strontium absorption by Na-zeolite can be determined satisfactorily by radiometric and chemical analysis. The two methods complement one another, and can be used for mutual control purposes. "The authors are grateful to Ye. G. Davitashvili, M. M. Rubinshteyn and Ts. A. Gedzhadze for their assistance in describing the objects under investigation." Orig. art. has: 1 figure, 2 formulas and 6 tables.

ASSOCIATION: none

SUBMITTED: 16Jul62 DATE ACQ: 07Feb64 ENCL: 00

SUB CODE: EL, CH NO REF SOV: 010 OTHER: 005

Card 2/2

TSIVIL'KO, G.Ya.

Effect of certain parameters of ship hull design on the coefficient of residuary resistance. Sudorem. i sudostr. no.2:94-109 '63.

Optimum coefficient of a ship's longitudinal displacement. Ibid.:109-112 (MIRA 17:4)

1. Odesskiy institut inzhenerov morskogo flota.

TSITSISHVILI, G.V.; BAGRATISHVILI, G.D.; ANDRIANOV, K.A.; KHANANASHVILI, L.M.; KANTARIYA, M.L.

Infrared spectra of cyclic organosiloxanes. Izv.AN SSSR.Otd.-khim.nauk no.6:1014-1019 '62. (MIRA 15:8)

1. Institut khimii im. P.G.Melikishvili AN Gruzinskoy SSR i Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova.
(Silicon organic compounds--Spectra)

TSITSISHVILI, G.V.; BAGRATISHVILI, G.D.; ANDRIANOV, K.A.; KHANANASHVILI, L.M.; KANTARIYA, M.L.

Infrared spectra of cyclic organosilazanes. Izv.AN SSSR.Otd.khim. nauk no.7:1197-1198 Jl '62. (MIRA 15:7)

1. Institut khimii im. P.G.Milikishvili AN Gruzinskoy SSR i Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova.
(Silazanes—Spectra)

ANDRONIKASHVILI, T.G.; SABELASHVILI, Sh.D.; TSITSISHVILI, G.V.

Gas chromatography study of the separation properties of sodium and silver forms of X-type molecular sieves. Neftekhimiia 2 no.2: 248-252 Mr-Ap '62. (MIRA 15:6)

1. Institut khimii AN Gruzinskoy SSR imeni P.G.Melikishvili.
(Gas chromatography) (Zeolites)

TSITSISHVILI, G.V., akademik; GRIGOLIYA, Ye.L.; ANDRONIKASHVILI, T.G.; SHUAKRISHVILI, M.S.

Sorption of water vapor on molecular sieves. Soob.AN Gruz.SSR 28 no.1:17-24 Ja '62. (MIRA 15:4)

1. Akademiya Nauk Gruzinskoy SSR, Institut khimii imeni P.G. Melikishvili, Tbilisi. 2. Akademiya Nauk Gruzinskoy SSR (for TSitsishvili).
(Zeolites) (Adsorption) (Steam)

TSITSISHVILI, G.V., nauchnyy sotrudnik

Dietary regime for students. Gig. i san. 26 no.6:102-103 Je '61.
(MIRA 15:5)

1. Iz Nauchno-issledovatel'skogo instituta sanitarii i gigiyeny Ministerstva zdravookhraneniya Gruzhinskoy SSR.
(SCHOOLCHILDREN--FOOD)

TSITSISHVILI, G.V., akademik; ANDRONIKASHVILI, T.G.; LAPERASHVILI, L.Ya.; GEDZHADZE, TS.A.

Synthesis of some forms of molecular sieves. Soob. AN Gruz. SSR 27 no.4:405-410 O '61. (MIRA 15:1)

1. AN Gruzinskoy SSR, Institut khimii imeni P.G. Melikishvili, Tbilisi. Akademiya nauk Gruzinskoy SSR (for TSitsishvili).
(Zeolites)

S/081/62/000/016/018/043
B168/B186

AUTHORS: Tsitsishvili, G. V., Andronikashvili, T. G., Laperashvili, L. Ya., Godzhadze, Ts. A.

TITLE: Synthesis of certain forms of molecular sieves

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 16, 1962, 348, abstract 16K131 (Soobshch. AN GruzSSR, v. 28, no. 4, 1961, 405-410 [Russian])

TEXT: It was found that zeolites can be synthesized at atmospheric pressure and 100°C. A sodium form of type A zeolite was obtained. Sodium zeolitic alumosilicates were prepared from sodium aluminate and sodium silicate. A specific quantity of sodium aluminate solution was added to a sodium silicate solution. This produced a whitish yellow gel which, after thorough mixing, was left to stand for 42 hours and then heated for a specific period, which resulted in the formation of zeolite crystals. The product of crystallization was washed and the further zeolite obtained was dried at 80-90°C. Calcium and copper forms of zeolite were obtained by ion exchange from the sodium form. [Abstracter's note: Complete translation.]

Card 1/1

OSITSIANU, G. V.

"The effect of the sleep regimen on the work capacity of school children."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

GOGORISHVILI, P.V.; KARKARASHVILI, M.V.; TSITSISHVILI, L.D.;
TSISKARISHVILI, P.D., red.

[Oil field brines of Georgia] Burovye vody neftianykh
mestorozhdenii Gruzii. Tbilis, Metsniereba, 1964. 121 p.
(MIRA 18:7)

TSITSISHVILI, N.E.

Notation of numbers in different reckoning systems in grade 5 of secondary schools (11-12 yrs.). Soob. AN Gruz. SSR 28 no.2: 249-256 F '62. (MIRA 15:3)

1. AN GruzSSR, Institut psikhologii imeni D.Uznadze, Tbilisi. Predstavleno chlenom-korrespondentom AN GruzSSR R.G.Natadze.
(Arithmetic--Study and teaching (Primary))

TSITSISHVILI, T.Z., kand. tekhn. nauk; MARKVARTDE, V.M., inzh.

Practices in using medium-jet sprinkling apparatus and sectional pipe lines for irrigating tea plantations on foothill slopes. Gidr. i mel. 15 no.5:49-55 My '63. (MIRA 16:6)

1. Gruzgiprovodkhoz (for TSitsishvili). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki i melioratsii im. Kostyakova (for Markvartde).
(Krasnodar Territory—Tea—Irrigation)
(Transcaucasia—Tea—Irrigation)

L 29976-66 EWT(1)/T IJP(c) AT

ACC NR: AP6012484 SOURCE CODE: UR/0181/66/008/004/1193/1201

AUTHOR: Tsitsishvili, Ye. G.

ORG: Institute of Cybernetics, AN GruzSSR (Institut kibernetiki AN GruzSSR)

TITLE: Strongly doped semiconductor in a magnetic field

SOURCE: Fizika tverdogo tela, v. 8, no. 4, 1966, 1193-1201

TOPIC TAGS: semiconductor impurity, impurity level, semiconductor band structure, Green function, conduction electron, semiconductor carrier, magnetic susceptibility

ABSTRACT: The author uses a procedure developed by V. L. Bonch-Bruyevich (FTT v. 4, 2660, 1962) to determine several characteristics of a strongly doped semiconductor, which can be regarded as a degenerate or almost degenerate unipolar semiconductor. The density of states is calculated in the energy region near the Fermi level and the bottom of the conduction band, using the Green's function for the free electron in a weak and in a strong magnetic field. The effect of the impurity on the free-carrier spectrum is analyzed and the dependence of the state density in the tail of the distribution function on the magnetic field is determined. The

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ACC NR: AP6012484

author calculates also the static magnetic susceptibility of the conduction electrons of such a semiconductor. The influence of the impurity on the free-carrier spectrum leads to a correction to the constant part of the susceptibility and to a factor of the Dingle type in the oscillating part of the susceptibility. In the first approximation in the strong-doping parameter this correction is small. The presence of the Dingle factor causes smearing of the oscillations of the magnetic susceptibility in weak magnetic fields. This smearing can be neglected in strong fields. The author thanks V. L. Bonch-Bruyevich for suggesting the topic and continuous guidance. Orig. art. has: 38 formulas.

SUB CODE: 20/ SUBM DATE: 29Oct64/ ORIG REF: 008/ OTH REF: 002

Card 2/2

TSITSIV, M.V.; LYABAKH, B.V.

Centrifugal atomizer with controlled dispersion. Zashch. rast. ot vred. i bol. 8 no.9:22-24 S '63. (MIRA 16:10)

1. Nachal'nik laboratoriy Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po mekhanizatsii rabot v sadakh i vinogradnikakh Moldavskogo soveta narodnogo khozyaystva.

YERES'KO, V.A., kand. tekhn. nauk; TSITSIV, M.V., inzh.

Use of polymer materials for the closing valves of the PuVPD aerosol sprayers. Trakt. i sel'khozmash. no.12:29-30 D '65.
(MIRA 18:12)

1. Kishinevskiy sel'skokhozyaystvennyy institut (for Yeres'ko).
2. Gosudarstvennoye spetsial'noye konstruktorskoye byuro Soveta narodnogo khozyaystva Moldavskoy SSR (for TSitsiv).

TSITSIV, M.V., inzh.

Some problems in the design and calculation of centrifugal atomizers of agricultural sprayers. Trakt. i sel'khozmash. 33 no.3:23-26 Mr '63. (MIRA 16:11)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro Soveta narodnogo khozyaystva Moldavskoy SSR.

TSITSIV, M.V.

Apparatus for the measurement of droplets. Zashch. rast. ot vred. i bol. 8 no.12:32-33 D '63. (MIRA 17:3)

1. Nachal'nik otdela Gosudarstvennogo seriyno-konstruktorskogo byuro Moldavskogo soveta narodnogo khozyaystva.

TSITSIV, M.V.; SUDIT, Zh.M.; GRONSKIY, A.I.

The "Mikron" wheelbarrow-knapsack aerosol apparatus. Zashch.rast. ot vred.i bol. 7 no.6:21-22 Je '62. (MIRA 15:12)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro po mashinam dlya khimicheskoy zashchity rasteniy L'vovskogo soveta narodnogo khozyaystva.
(Spraying and dusting equipment)

TSITSIV, M.V.; SUDIT, Zh.M.; GRONSKIY, A.I.

"Raketa" OAN -2 aerosol sprayer. Zashch. rast. ot vred. i bol. 7 no.7:16-17 Jl '62. (MIRA 15:11)

1. Nachal'nik sektora aerozol'nykh opryskivateley Gosudarstvennogo spetsial'nogo konsturktorskogo byuro po mashinma dlya khimicheskoy zashchity rasteniy L'vovskogo soveta narodnogo khozyaystva (for TSitsiv). 2. Vedushchiye konstruktory Gosudarstvennogo spetsial'nogo konstruktorskogo byuro po mashinma dlya khimicheskoy zashchity rasteniy L'vovskogo soveta narodnogo khozyaystva (for Sudit, Gronskiy).
(Spraying and dusting equipment)

TSITSKISHVILI, G.V.

Structural changes in nervous formations of the skin in auto- and homotransplantations. Trudy Inst.eksp.i klin.khir. i gemat. AN Gruz.SSR 10:353-358 '62. (MIRA 16:2)
(SKIN GRAFTING)

TSITSVIDZE, A.T.

Eucalyptus under the snow. Priroda no.6:79 Je '60.
(MIRA 13:6)
(Baku--Eucaplyptus)

27914
S/177/61/000/009/002/002
D264/D303

AUTHORS: Tsivilashvili, A.S., Lieutenant Colonel, Medical Corps, and Chernyakov, I.N., Major, Medical Corps, and Candidate of Medical Sciences

TITLE: The effects of explosive decompression on animals and man

PERIODICAL: Voyenno-meditsinskiy zhurnal, no. 9, 1961, 65-69

TEXT: The authors analyze and collate the findings of western researchers on the effects of explosive decompression on man and animals. Points covered are: the boundary between slow and explosive decompression; the general and local changes due to explosive decompression (retarded respiration, bradycardia, a drop in arterial pressure, damage to the gastrointestinal tract, external traumas); individual resistance to decompression; means of protection, etc. The authors conclude that, under explosive decompression, there occurs a marked increase in the pressure and volume of body

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cavities containing gases and air, which may cause morphological lesions. The most marked lesions occur in the lungs, their extent depending on the physical parameters of the pressure drop, the presence of protective devices, the state of the respiratory tract and the subject's physical constitution. They also point out that research so far has somewhat neglected two aspects: reliable means of protection against explosive decompression, and the effects of decompression on men wearing various types of oxygen-breathing apparatus.

Card 2/2

[redacted], [illegible]. S., Cand Chem Sci — (diss) "Concerning the [illegible] of certain ethylalkenylphosphinic acids," Kazan', 1960, 14 pp (Kazan' State Univ im V. I. Ul'yanov-Lenin) (KL, 35-60, 123)

TSKHAKAYA, A. D.

PHASE I BOOK EXPLOITATION SOV/[illegible]

Akademiya nauk SSSR. Sovet po seysmologii

Byulleten', No. 8: Voprosy seysmicheskogo rayonirovaniya (Bulletin of the Council on Seismology, Academy of Sciences USSR, No. 8: The Problems of Division Into Seismological Districts) Moscow, 19[illegible]. [illegible] p. 1,[illegible] copies printed.

Resp. Ed.: S. V. Medvedev, Doctor of Technical Sciences; Eds. of Publishing House: I. A. Rezanov, and L. K. Nikolayeva; Tech. Ed.: T. P. [illegible]

PURPOSE: This publication is intended for seismologists.

COVERAGE: The publication contains articles based on reports presented at a meeting of the Council on Seismology held in [illegible] The articles reflect the present state of work conducted in seismic [illegible]ization" and discuss the following problems: methods of seismic [illegible]ization and microregionalization, methods of compiling [illegible] seismic maps, instrument and descriptive data on [illegible] in [illegible] seismic regions of the USSR, and the relationship between seismicity and geological structure. The articles are accompanied by diagrams, tables, and bibliographic references.

TSOMAYA, I. V. Cand. Vet. Sci.

"Active immunization of babesiosious sheep."

Veterinariya Vol. 37, No. 3, 1960, p. 31

Gruzinskiy NIIZhV.

GALIMZHANOV, K.G., inzh.; TSOY, N.D., inzh.

Mine ventilation in case of forced caving. Bezop.truda v prom. 4 no.1:13-14 Ja '60. (MIRA 13:5)
(Mine ventilation)

TSOYMAN, G.I.

Equation of state and thermodynamic properties of ammonia. Izv. vys.ucheb.zav.; neft' i gaz 2 no.12:95-98 '59. (MIRA 13:5)

1. Odesskoye proyektno-konstruktorskoye byuro.
(Ammonia)

TSUBIN, M.S.

The ShLKh2 type semiautomatic multiple-spindle tenon-cutting machine. Biul.tekh.-ekon.inform. no.1:36-37 '60.
(MIRA 13:5)

(Woodworking machinery)

TSULUKIDZE, Aleksandr Petrovich

[Essays on urological surgery] Ocherki operativnoi urologii. Izd.2. Tbilisi, Izd-vo Akad.nauk Gruzinskoi SSR, 1959. 285 p. (MIRA 13:8)

(URINARY ORGANS--SURGERY)

TSURANOV, A., ryadovoy

Private Lobanov is the head of the radio club. Radio no.2:5 F '60. (MIRA 13:5)

(Radio clubs) (Military education)

BAZHENOVA, K.M., kand.med.nauk; GARVIN, L.I., dotsent; KALASHNIKOV, B.P., prof.; KARASIK, V.M., prof.; K'YANDSKIY, A.A., prof.; KRISHOVA, N.A., prof.; LOPOTKO, I.A., prof.; MASHLAKOVA, P.V., vrach; MESSEL', M.A., kand.med.nauk; PUNIN, B.V., prof.; ROZHDESTVENSKIY, V.I., doktor med. nauk; ROMANOVSKAYA, V.K., vrach; SOSNYAKOV, N.G., prof.; TUR, A.F., prof.; TUSHINSKIY, M.D., prof.; FILIPCHENKO, Ye.M., kand.med.nauk; KHROMOV, B.M., prof.; TSURINOVA, Ye.G., doktor med.nauk; SHRAYBER, M.G., prof.; POLIKARPOV, S.N., dotsent; UDERMAN, Sh.I., dotsent, red.; SHEVCHENKO, F.Ya., tekhn.red.

[Physician's handbook on first aid and emergency care] Spravochnik vracha skoroi i neotlozhnoi pomoshchi. Leningrad, Gos.izd-vo med. lit-ry Medgiz, Leningr.otd-nie, 1960. 230 p. (MIRA 13:8)
(MEDICINE--HANDBOOKS, MANUALS, ETC.)

TSITSIN, N.V., akademik; CHERKASSKIY, Ye.S.; KOVTUNENKO, V.F.

Activated creolin of high concentration. Dokl.AN SSSR 145 no.1:147-150 Jl '62. (MIRA 15:7)

1. Glavnyy botanicheskiy sad AN SSSR.
(Creolin)

SOIFOIGHVILI, I.D., Cand Med Sci —(diss) "On the study of the Vitamin C and carotin content in the organs and tissues of rabbits infected with tuberculosis and the effect of the [illegible] on it." Tbilisi, 1959. 20 pp (Tbilisi State Med Inst), 200 copies (KL,30-59, 123)

TSITSISHVILI, I.N.

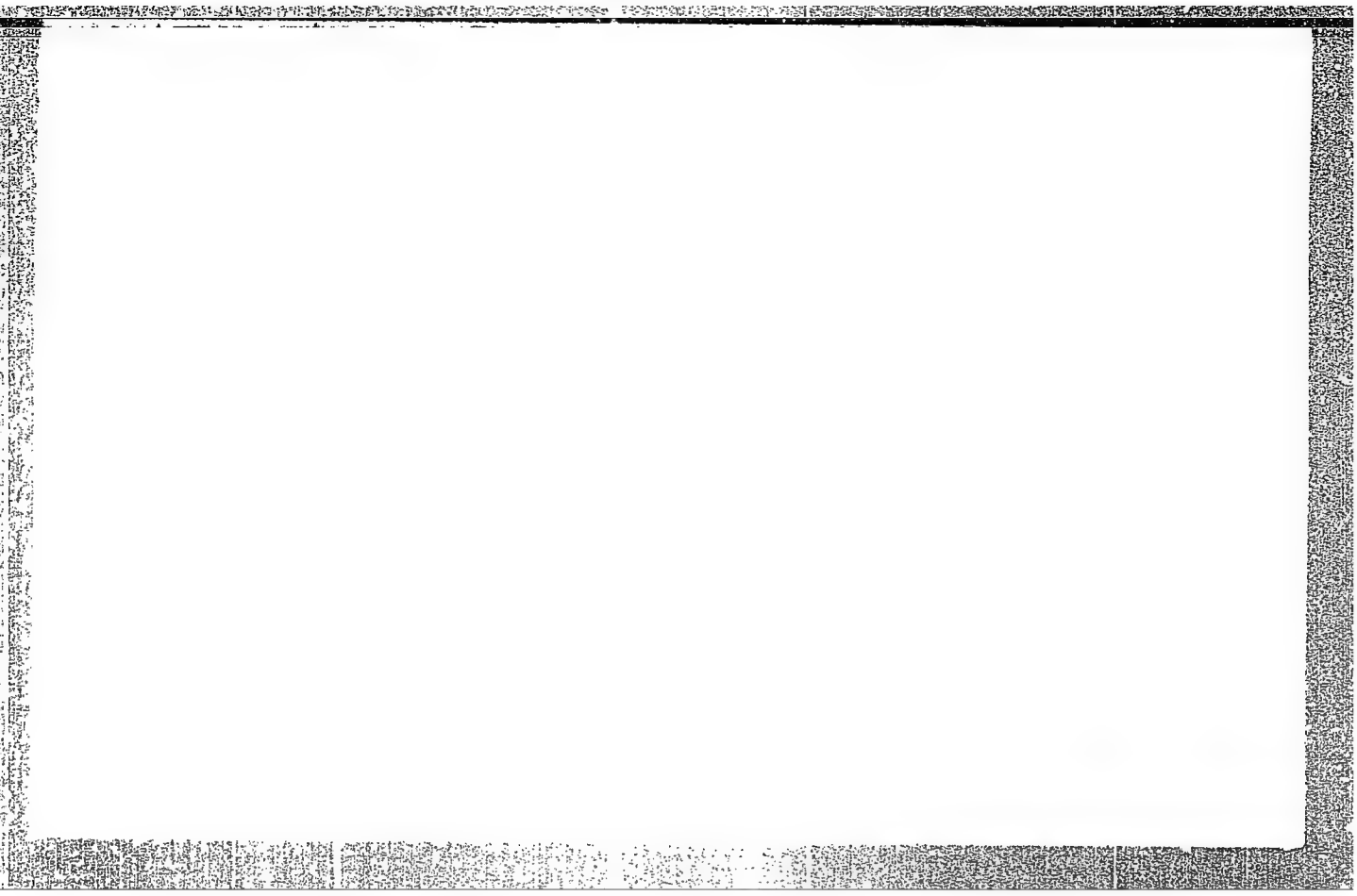
Petr Grigor'evich Melikishvili [in Georgian]. Trudy Tbil. GU no.62:ix-xiv '57. (MIRA 11:5)
(Melikishvili, Petr Grigor'evich 1850-1927)

TSITSISHVILI, I. N.

Nadarbazevi - Water-supply Engineering

Water supply system in Nadarbazevi Soob. AN Gruz. SSR 11 no. 8, 1950

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.



Tsitsishvili, L. D.

AUTHORS: Gogorishvili, P. V., Tsitsishvili, L. D. and Karkarashvili, M. V. 78-3-7/35

TITLE: The Action of Hydrazine on Dinitrotetraminocobaltinitrate in the Presence of Carbon Dioxide. (O Deystvii Gidrazina na Dinitrotetraminkobal'tinitrat v Prisutstvii Uglekislogo Gaza)

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1957, Vol. II, Nr. 3, pp. 532-535. (USSR)

ABSTRACT: This investigation, a report of which was presented at the VII All-Union Conference on the chemistry of complex compounds, October 9-13, 1956, is a continuation of previously reported work. The action of hydrazine hydrate and carbon dioxide on the cis- and trans-isomers of dinitrotetraminocobaltinitrate was studied. Under the conditions pertaining in the experiments an internal complex compound $(N_2H_3COO)_2Co(N_2H_4)_2$ was obtained. It has been shown that the action of 1 or 2 mol HCl on 1 mol of the compound being studied leads to the splitting of both molecules of hydrazine and the formation of

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The Action of Hydrazine on Dinitrotetraminocobaltinitrate in the Presence of Carbon Dioxide.

$(N_2H_3COO)_2Co.2H_2O$ at room temperature and of $(N_2H_3OCO)_2Co$ on heating. With 3 to 4 mol HCl, however, the rings open, N_2H_3COO is destroyed and cobalt hydrazinates are formed. It was also shown that radicals of the inorganic addend of hydrazincarboxylic acid in $(N_2H_3COO)_2Co(N_2H_4)_2$ close five-membered rings with cobalt, while the hydrazine molecules occupy one co-ordination point each. As in the authors' previous investigations[1,2] it was found that the hydrazinecarboxylic acid was stabilized in the above compounds, although it is unstable even in aqueous solution; this is evidently due to the closing of the five-membered ring by the hydrazinecarboxylic radical and bivalent cobalt. There is 1 figure and 5 references, 4 of which are Slavic.

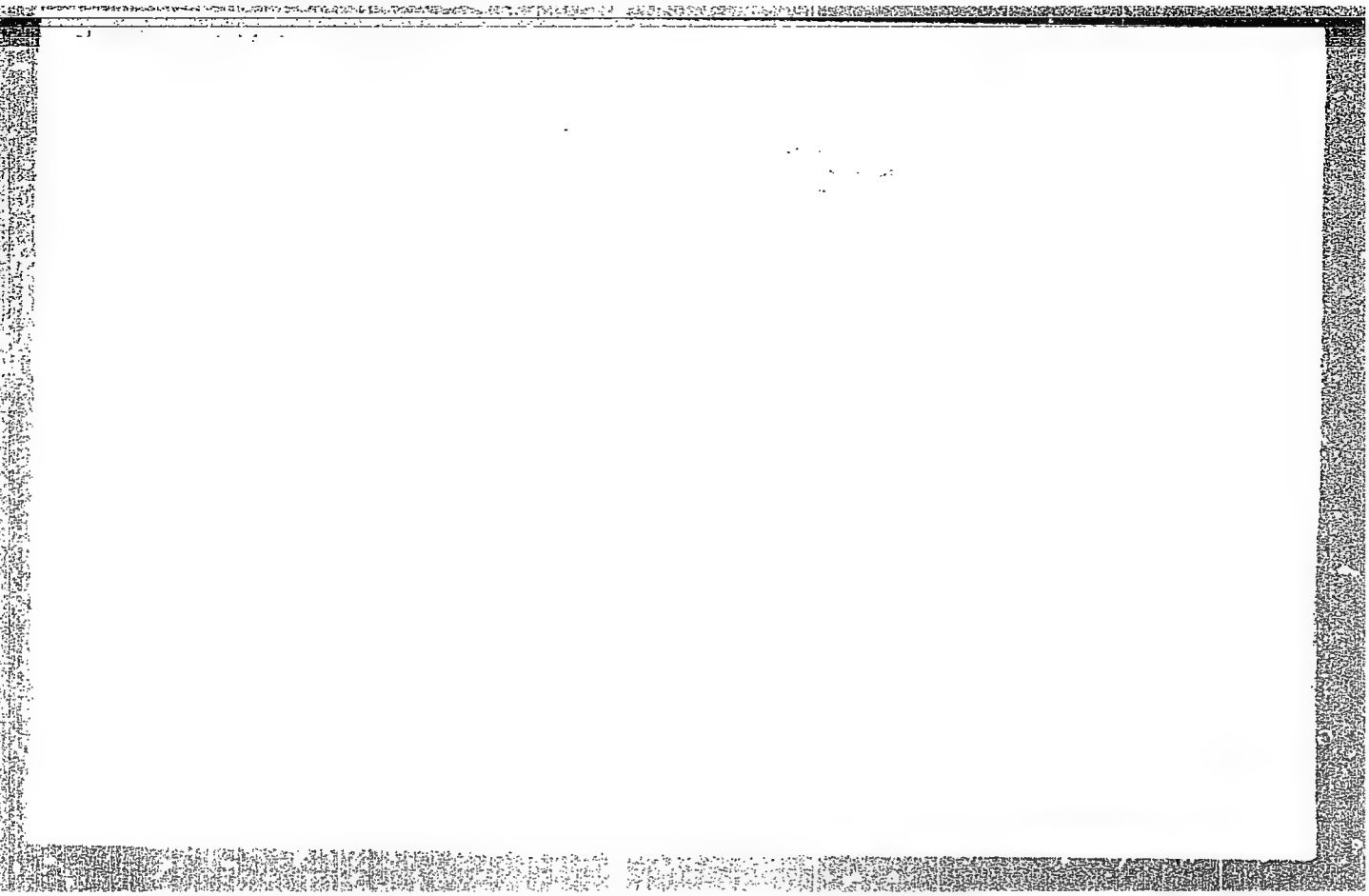
·The Action of Hydrazine on Dinitrotetraminocobaltinitrate in the Presence of Carbon Dioxide. 78-3-7/35

ASSOCIATION: The Chemical Institute imeni P. G. Melikishvili of the Academy of Sciences of the Gruzinskaya S.S.R., The Inorganic Chemistry Laboratory. (Institut Khimii im. P. G. Melikishvili Akademii nauk Gruzinskoy S.S.R. Laboratoriya Neorganicheskoy Khimii.)

SUBMITTED: October 27, 1956.

AVAILABLE: Library of Congress.

Card 3/3



GOGORISHVILI, P.V.; TSITSISHVILI, L.D.; MARKARASHVILI, M.V.

Compounds of trivalent cobalt with hydrazine. Zhur. neorg. khim. 2 no.5:1040-1045 My '57. (MLRA 10:8)

1. Institut khimii imeni P.G. Melikishvili Akademii nauk Gruzinskoy SSR, Laboratoriya neorganicheskoy khimii.
(Cobalt) (Hydrazine) (Complex compounds)

GOGORISHVILI, P.V.; TSITSISHVILI, I.D.; KARKARASHVILI, M.V.

Separate determination of ammonia and hydrazine in ammonia hydrazine complex compounds [in Georgian with summary in Russian]. Trudy Inst.khim.AN Gruz.SSR 12:101-116 '56. (MLRA 10:5)
(Ammonia) (Hydrazine) (Compounds, Complex)

GOGORISHVILI, P.V.; TSITSISHVILI, L.D.

Synthesis of hydrazine cobalt dicarbazate. Trudy Inst.khim. AN Gruz.SSR 14:15-18 '58. (MIRA 13:4)
(Cobalt compounds) (Carbazic acid) (Hydrazine)

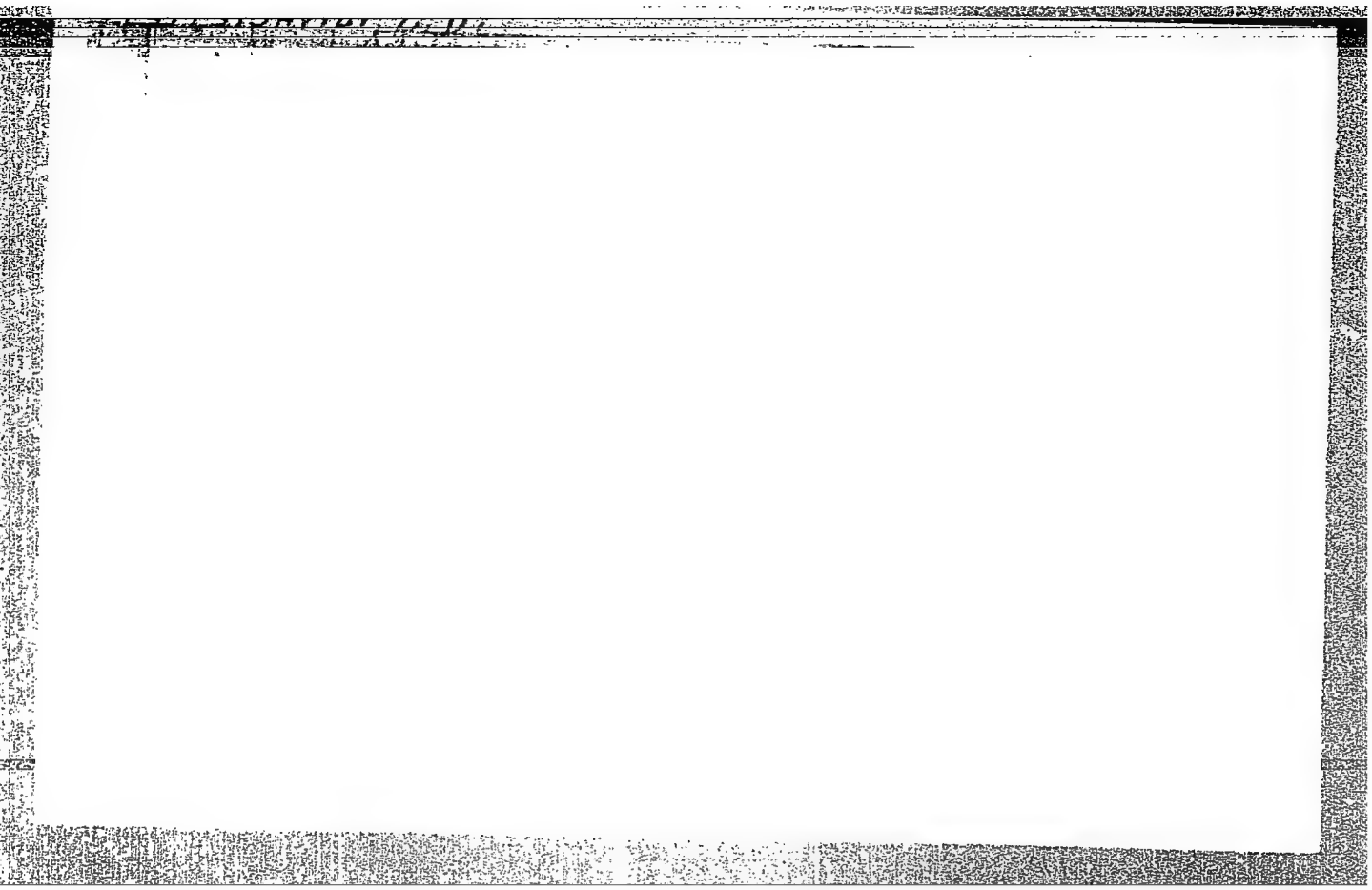
TSITSISHVILI, L. D.: Cand Master Chem Sci (diss) -- "Complex compounds of cobalt with hydrazine and hydrazine-carboxylic acid". Tbilisi, 1958. 22 pp (Tbilisi State U im I. V. Stalin), 150 copies (KL, No 6, 1959, 127)

GOGORISHVILI, P.V.; KARKARASHVILI, M.V.; TSITSISHVILI, L.D.

Effect of hydrazine on chloropentammine cobaltichloride in the presence of CO_2. Zhur. neorg. khim. 1 no.12:2753-2758 D '56. (MLRA 10:6)

1. Institut khimii imeni P.G. Melikishvili Akademii nauk Gruzinskoy SSR.

(Hydrazine) (Cobalt compounds) (Complex compounds)

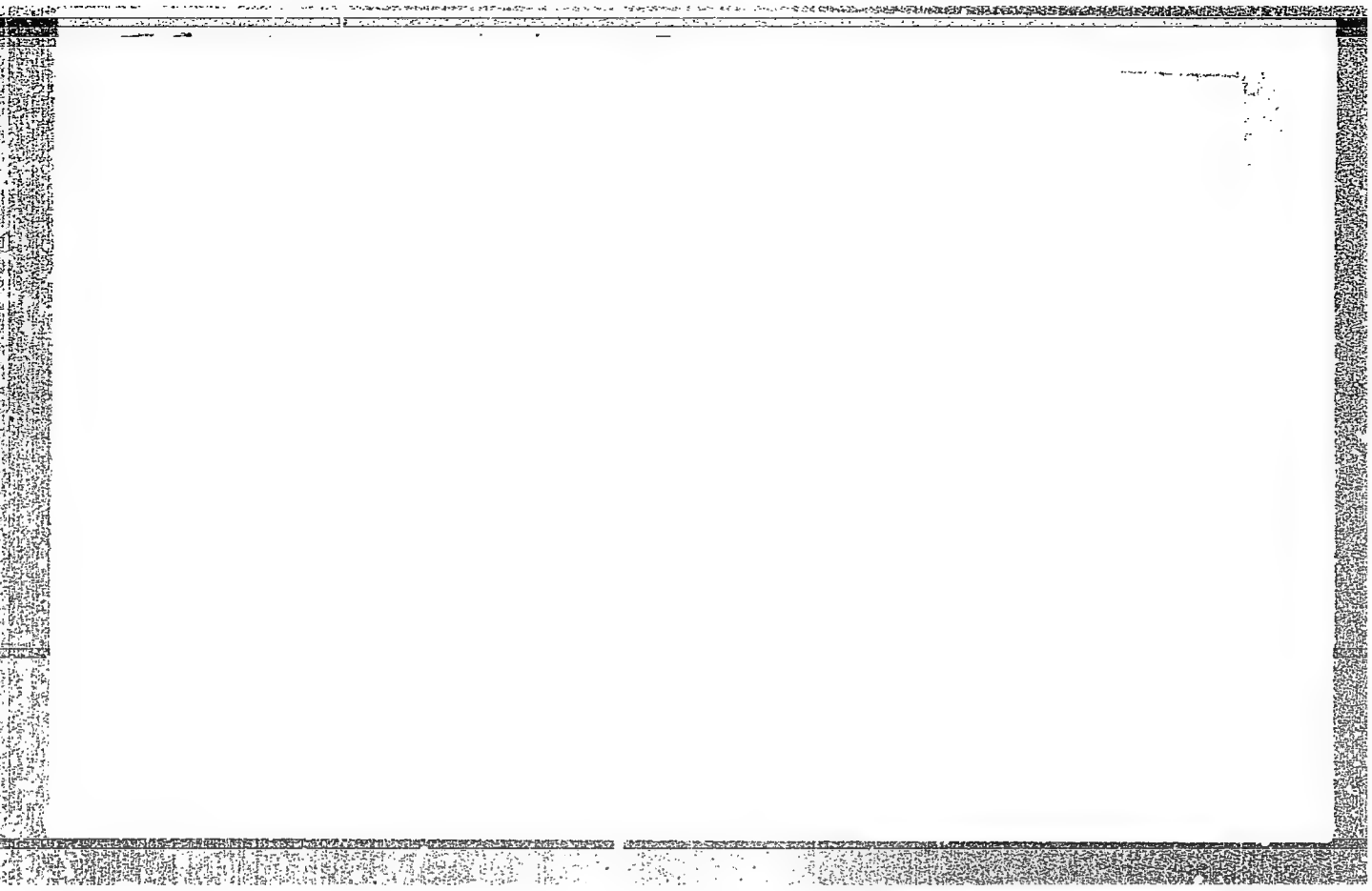


APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120011-6"

GOGORISHVILI, P.V.; TSITSISHVILI, L.D.; KARKARASHVILI, M.V.

Effect of hydrazine on dinitrotetraamino cobalt nitrate in the presence of carbon dioxide. Zhur. neorg. khim. 2 no.3: 532-535 Mr '57. (MLRA 10:5)

1. Institut khimii im. P.G. Melikishvili Akademii nauk Gruzinskoy SSR, Laboratoriya neorganicheskoy khimii.
(Hydrazine) (Cobalt organic compounds)



APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001757120011-6"

TSITSISHVILI, L.D., GOGORISHVILI, I.V., and KARKARASHVILI,

"Separate Determination of Hydrazine and Ammonia in Ammonia-Hydrazine Complex Compounds," Zhur. Neorgan. Khim., pp 232-242, Feb. 1956

The separate determinations of hydrazine and ammonia in ammonia-hydrazine complex compounds. P. V. Gogorishvili, M. V. Karkarashvili, and L. D. Tsitsishvili. *Zhur. Neorg. Khim.* 1, 232-42(1956).—Hydrazine is titrated electrometrically with 0.1*N* $KMnO_4$ in 4.5*N* H_2SO_4 at 50–55°, with the addn. of some $CoCl_2$. The oxidation reaction corresponds to $3N_2H_4 + 3O \rightarrow 2N_2 + 2NH_3 + 3H_2O$. Other reactions which have been proposed in the literature are in error either with respect to oxidant consumption, NH_3 formation, or both. The NH_3 evolved can be detd. by the Kjeldahl method. The method was shown to be accurate for the following compds.: $N_2H_4.2HCl$, $N_2H_4.H_2SO_4$, $Co(N_2H_4)_3Cl_3$, $Co(N_2H_4)_3SO_4.H_2O$ (I), $Ni(N_2H_4)_3Cl_2$, $(N_2H_5COO)_2Co(N_2H_4)_2CO_3$, $[Co(NH_3)_4N_2H_4NO_2]CO_3.1^1/_2H_2O$ (II). In analyzing I it is necessary to heat the acidified soln. to remove the SO_3^{--} ion, before proceeding with the titration. In analyzing II, the titration must be carried out quickly, at room temp.; the NO_2^- is not oxidized by the MnO_4^-. At higher temp. the NO_2^- oxidizes some of the N_2H_4, causing low results. For mixts. of compds. contg. NH_3 and N_2H_4, the NH_3 analysis is conducted separately. In this case the N_2H_4 is oxidized to N_2 with excess CuO or MnO_2 in an acid soln (contg. HCl, H_2SO_4, or HNO_3) and heated strongly until N_2 evolution ceases. The NH_3 can then be detd. by the Kjeldahl method. This procedure was used successfully for mixts. of NH_4Cl and $N_2H_4.2HCl$ (contg. 33-67% NH_4Cl), $Co(NH_3)_4(NO_2)_2.^1/_2H_2O$ (III) + $N_2H_4.2HCl$ (contg. 50-67% $N_2H_4.2HCl$); $Co(NH_3)_4ClCl_2$ (IV) + $N_2H_4.2HCl$ (contg. 50-67% $N_2H_4.2HCl$); $Co(N_2H_4)_3Cl_3$ + NH_4Cl (contg. 2[illegible]% NH_4Cl); and for the pure compds. II, III, and IV.

C. H. Fuchsman

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8962* Separate Determination of Hydrazine and Ammonia in Complex Ammonia-Hydrazine Compounds. **Razdel'noe opredelenie gidrazina i ammiaka v ammiachno-gidrazinovykh kompleksnykh soedineniiakh.** (Russian.) P. V. Gogorishvili, M. V. Karkarashvili, and L. D. Tsitsishvili. *Zhurnal Neorganicheskoi Khimii*, v. 1, no. [illegible], 1956, p. 232-242.

Oxidation of hydrazine by potentiometric titration with permanganate used for determination of hydrazine and as a preliminary to determination of ammonia in complexes. Graphs, tables. 33 ref.

TSITSISHVILI, N.,

Tsitsishvili, N., Kipshenko, T. and Kobuladze, Ch. "Vitamin C content in certain plants of Soviet Georgia," Trudy Tbilis. gos. un-ta im. Stalina, Vol. XXXIV, 1948, p. 13-16, (In Georgian, resume in Russian), - Bibliog: 5 items

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

USSR/Cultivated Plants. Potatoes. Vegetables. Melons M-5

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1552

Author : N. Tsitsishvili, G. Tsitsishvili, T. Kiparenko, B. Chikhladze
Inst : Not Given
Title : A Chemical Study of the Potato Made at the Bakuriani Botanical Garden

Orig Pub : Tr. Tbilissk. un-ta, 1956, 60, 121-128

Abstract : The average chemical composition of 54 varieties of the 1953 potato crop: moisture 72.44%, dry residue 27.56, starch 19.77, aggregate nitrogen 0.46, ash 1.35%, vitamin C 2.41mg%. The low vitamin C content is explained by continuous storing of potatoes (8 months) under heterogeneous conditions. Outstanding in starch content as calculated by their dry matter are the following varieties: Sibiryak 84.67%, Silosnyy 82.74, Sileziya 82.25, and Ostbote 81.35%.

Card : 1/1

TSITSISHVILI, N. S.

TSITSISHVILI, N. S., KIPARENKO, T. and KOBULADZE, Ch. "The vitamin C content of a variety of apples in certain fruitgrowing areas of eastern Georgia," Trudy Tbilis. gos. unta im. Stalina, Vol XXXIIIa, 1949, p. 33-42, (In Georgian, resume in Russian), - Bibliog: 9 items

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

TSIFSISHVILI, M. S.

12 to 15 May 1948, Moscow, first conference was held on history of Soviet chemistry, convened by Commission on the History of Chemistry, Acad Sci USSR. Many papers were presented b (ostensibly) members of this Commission.

"Petr Grigor'yevich Melikishvili - 1850 to 1927" (Fiflis - Tbilissi State U imeni V. I. Stalin).

"Materials on the History of Soviet Chemical Science," published by Acad Sci USSR in Moscow-Leningrad 1950. [redacted] #283498

TSITSISHVILI, Sh.I.

Peculiarities in the course of "simple schizophrenia" and problems in legal psychiatric appraisal. Probl.sud.psikh. 8:482-499 '59.
(MIRA 13:6)

(Schizophrenia) (Forensic psychiatry)

/SITSISHVILI, N.

USSR/General Problems. Methodology, History, Scientific Institutions and Conferences, Instruction, Questions Concerning Bibliography and Scientific Documentation. A

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3466.

Author : N. Tsitsishvili.
Inst : Tiflis University.
Title : Petr Grigor'yevich Melikishvili (Melikov).

Orig Pub: Tr. Tbilissk. un-ta, 1957, 62, IX - XIV.

Abstract: To the 30th anniversary of his death. See also RZhKhim, 1957, 68089.

Card : 1/1

-17-

TSITSIV, M.V.

Apparatus for the measurement of droplets. Zashch. rast. ot vred. i bol. 8 no.12:32-33 D '63. (MIRA ;7:3)

1. Nachal'nik otdela Gosudarstvennogo seriyno-konstruktorskogo byuro Moldavskogo soveta narodnogo khozyaystva.

TSITSIV, M.V., inzh.; LYABAKH, B.V., inzh.

Centrifugal atomizer for poisonous chemicals. Trakt. i sel'khozmash. no.2:36-37 F '64. (MIRA 17:3)

1. Gosudarstvennoye spetsial'noye konstruktorskoye byuro Soveta narodnogo khozyaystva Moldavskoy SSR.

TSITSKIN, N. V.

Rye

Ramose winter rye. Biul. Glav. bot. sade. No. 10, 1951.

9. Monthly List of Russian Accessions, Library of Congress, December 1953, Unclassified.

TSITSKISHVILI, A.P.

AUTHOR: Tsitskishvili, A.P. (Moscow) 40-21-2-20/22

TITLE: On the Iteration Method Due to N.M.Gersevanov (Ob iteratsionnom metode N.M. Gersevanova)

PERIODICAL: Prikladnaya Matematika i Mekhanika, 1957, Vol 21, Nr 2 pp 291-296 (USSR)

ABSTRACT: In 1943 Gersevanov [Ref 1] proposed a method for the solution of the problems on the seepage of the ground water which based on the application of the functional analysis. In the present paper the author demonstrates by several examples that the solutions obtained according to the method of Gersevanov by no means always describe the actual occurrences. At most they give approximations but sometimes not yet that. There are 8 references, 7 of which are Soviet, and 1 German.

SUBMITTED: September 14, 1956

AVAILABLE: Library of Congress

1. Ground water--Seepage--Mathematical analysis

Card 1/1

TSITSKISHVILI, A.R. (Moskva).

Percolation from a canal with trapezoidal cross-section. Izv. AN SSSR. Otd. tekh. nauk no.3:125-133 Mr '57. (MLRA 10:6)
(Canals) (Soil percolation)

124-58-6-6902 D

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 92 (USSR)

AUTHOR: Tsitskishvili, A.R.

TITLE: The Steady-state Seepage From Canals (Ustanovivshayasya fil'tratsiya iz kanalov)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of the Physical-Mathematical Sciences, presented to the In-t mekhan. AN SSSR (Institute of Mechanics, Academy of Sciences, USSR), Moscow, 1957.

ASSOCIATION: In-t mekhan. AN SSSR (Institute of Mechanics, Academy of Sciences, USSR), Moscow.

1. Inland waterways--Properties 2. Water--Penetration

Card 1/1

TSITSKISHVILI, A.R. (Moskva).

Semireversible method in the theory of percolation from curvilinear canals. Izv. AN SSSR. Otd. tekh. nauk no.4:129-133 Ap '57.
(Soil percolation) (MLRA 10:6)

TSITSKISHVILI, A.R. (Moskva)

The iteration method of N.M. Gersevanov. Prikl.mat.i mekh. 21 no.2:291-296 Mr-Ap '57. (MLRA 10:8)
(Functional equations) (Soil percolation)

AUTHOR: Tsitskishvili, A. R. (Mocsow). 24-4-20/34

TITLE: "Half turn" method in the theory of seepage from curvilinear canals. (Poluobratnyy metod v teorii fil'tratsii iz krivolineynykh kanalov).

PERIODICAL: "Izv. Ak. Nauk, Otd. Tekh. Nauk" (Bulletin of the Ac. Sc., Technical Sciences Section), 1957, No.4, pp.129-133 (USSR).

ABSTRACT: It is assumed that an area which is near to the lower semiplane is delimited by a curve $y = f(x)$ which satisfies certain conditions. For solving the problem of seepage for an approximate mapping of the lower semiplane on an area which is near to it, the author uses the formula (1.1) of M. A. Lavrent'ev (1). The water level in the canal is taken as a plane of comparison of the pressures. It is assumed that the seepage from the canals proceeds through a uniform porous medium, that there is no capillarity in the soil and that there is neither infiltration nor evaporation at the free surface. The method is based on conformal mapping of the area of the complex seepage potential $\omega = \varphi + i\psi$ onto the area of the $\chi = z + i\varkappa\omega$ Zhukovskiy function, where $\varkappa$ is the seepage coefficient. The author proposes to use conformal mapping of the complex seepage potential ω and of the Zhukovskiy function area χ on an auxiliary plane $w = u + iv$.

Card 1/2

"Half turn" method in the theory of seepage from curvilinear canals (Cont.). 24-4-20/34

There are 5 figures, 3 Russian references.

SUBMITTED: December 7, 1956.

AVAILABLE:

Card 2/2

TSITSKISHVILI, A.R., Cand Phys-Math Sci -- (diss) "Settled filtration from canals". Mos, 1957, 8 pp (Acad Sci USSR, Inst of Mechanics), 120 copies. Bibliography: pp 7-8 (15 titles). (KL, 1-58, 114)

TSITSKISHVILI, A.R.

Case of seepage from curvilinear channels in the presence of pressure from below. Soob. AN Gruz. SSR 25 no. 3:263-266 S '60.

1. Akademiya nauk Gruzinskoy SSR, Tbilisskiy matematicheskiy institut im. A.M. Razmadze. Predstavleno chlenom-korrespondentom Akademii nauk Gruzinskoy SSR N.P. Vekua.
(Seepage)

PA - 3079

AUTHOR: TSITSKISHVILI,A.R. (Moscow)

TITLE: Filtration from a Canal with a Trapezoidal Cross Section. (Fil'tratsiya iz kanala trapetsoidal'nogo secheniya, Russian)

PERIODICAL: Izvestiia Akad. Nauk SSSR, 1957, Vol 21, Nr 3, pp 125 - 133 (U.S.S.R.)

Received: 6 / 1957 Reviewed: 7 / 1957

ABSTRACT: The problem investigated was that case where the speed approaches zero at infinity, i.e. when the filtration area through an impermeable stratum is limited at a great depth, or when the stratum is shifted by much permeability with the pressure water infinitely far down. The problem solution for the case where stagnation comprises as a special case also that where no stagnation is present, and where the speed at infinity is equal to the filtration coefficients. Here the method of B.K.RIZENKAMPF and his designations was employed ("Gidravlika", Vol 15, Nr 5, 1940). It is taken for granted that capillary action is absent, as well as the fact that the canal form is symmetrical (in regard to the axis oy). The free surface must in the general case have a turning point. Therefore that is taken for granted where stagnation exists although it is also possible that there is no turning point. A number of free surfaces are obtained which are dependent only on a parameter and which one can separate in free surfaces with and without turning point. Three cases were

Card 1/2

PA - 3079

Filtration from a Canal with a Trapezoidal Cross Section.

investigated for which calculations and curve diagrams were produced:
1) the horizontal canal, where the water depth is less than the breadth,
2) the canal with triangular form,
3) the right angle canal.
(4 illustrations and 8 citations frlm Slav publications)

ASSOCIATION: Not given
PRESENTED BY:
SUBMITTED: 7.12.1956
AVAILABLE: Library of Congress

Card 2/2

BARACHNYY, G.; ARISTOV, K.; MOCHALOVA, A.; KOROL'KOVA, B.; ANDREYEV, K.; TSITSKIYEV, S.; KUCHUMOVA, L.; IVAKHIN, I.; KURSOV, I.; KARAVAYEV, S.

Our readers' letters. Den. i kred. 20 no.3:69-73 Mr '62. (MIRA 15:3)

1. Kreditnyy inspektor Bakhchisarayskogo otdeleniya Gosbanka Krymskoy oblasti (for Barachnyy). 2. Upravlyayushchiy Krasnosel'skim otdeleniyem Gosbanka Kostromskoy oblasti (for Aristov). 3. Zamestitel' nachal'nika operatsionnogo upravleniya Moskovskoy gorodskoy kontory Gosbanka (for Mochalova). 4. Starshiy ekonomist Moskovskoy gorodskoy kontory Gosbanka (for Korol'kova). 5. Nachal'nik tekhnicheskogo otdela Moskovskoy oblastnoy kontory Gosbanka (for Andreyev). 6. Starshiy kreditnyy inspektor Sunzhenskogo otdeleniya Gosbanka Checheno-Ingushskoy ASSR (for TSitskiyev). 7. Glavnyy bukhgalter otdeleniya Gosbanka Verkhne-Chusovskiye Gorodki Permskoy oblasti (for Kuchumova). 8. Revizor Kurskoy oblastnoy kontory Gosbanka (for Ivakhin). 9. Glavnyy bukhgalter Irbitskogo otdeleniya Gosbanka Sverdlovskoy oblasti (for Kursov). 10. Glavnyy bukhgalter Komi-Permyatskoy okruzhnoy kontory Gosbanka (for Karavayev).

(Banks and banking)

TSITSORIN, V. A.

USSR/Chemistry - Iron Sulfate
Sulfuric Acid

Jul 49

"Solubility of Sulfuric Acid Salts of Iron in Concentrated Sulfuric Acid at High Temperatures," G. A. Zakharchenko, V. A. Tsitsorin, Chair of Anal Chem, Kuybyshev Ind Inst imeni V. V. Kuybyshev, 3½ pp

"Zhur Prik Khim" Vol XXII, No 7 pp. 702-706

Plots solubilities of $FeSO_4.7H_2O$ and $Fe_2(SO_4)_3$ in concentrate H_2SO_4 from 100 to 243° C as smooth running curves, indicating the absence of the formation of new compounds in these systems. Acid iron slats are gradually oxidized in proportion to temperature increase. Solubility of cuprous iron is decreased at temperatures near the boiling point of H_2SO_4. Submitted 18 Mar 48.

PA 66/49T14

TSITSORINA, T.N.

Histochemistry of mucopolysaccharides and proteins of the periplacental trophoblast in rabbits. Arkh. anat. gist. i embr. 48 no.4:64-67 Ap '65. (MIRA 18:6)

1. Kafedra gistologii i embriologii (zav. - prof. M.Yu. Subbotin) Novosibirskogo meditsinskogo instituta.

TSITSUGIN, I.

Flowers on balconies. Zhil.-kom.khoz. 9 no.7:14-15 '59.
(MIRA 12:11)

(Window gardening)

TSITSUGIN, I., nauchnyy sotrudnik

Arranging ornamental shrubs; advice to landscape architects.
Zhil.-kom.khoz. 8 no.10:21-22 '58. (MIRA 11:11)

1. Glavnyy botanicheskiy sad AN SSSR.
(Landscape gardening) (Shrubs)

TSITSUGIN, I.V.

Nurseries (Horticulture)

Accelerated growth of fruit seedlings. Sad i og., no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, MAY 1952 ~~1953~~ Unclassified.

1. TSITSUGIN, I. V.

2. USSR (600)

4. Quince

7. Japanese quince on the stem.
Sad i og. No.9, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

Tsitsugin, I. V.

USSR/ Miscellaneous - Horticulture

Card 1/1 : Pub. 86 - 20/40

Authors : Tsitsugin, I. V.

Title : Artistic forms of shrubs in gardening

Periodical : Priroda 43/4, 97-100, Apr 1954

Abstract : The methods and equipment for making artistically shaped shrubs for street and gardening ornamentation are described. The Latin names for the principal shrubs used are given. Illustrations.

Institution : .....

Submitted : .....

USSR/Agriculture - Fruit growing

Card 1/1 Pub. 86 - 22/37

Authors : Tsitsugin, I. V.

Title : Putting the sorb apple into the orchard

Periodical : Priroda 44/4, 108 - 110, Apr 1955

Abstract : An account is given of experimentation with hybrid forms of the sorb apple, the fruit of a tree known variously as mountain ash, sorb, service tree and rowan. The experimentation resulted in the production of a fruit of sufficiently high quality to warrant including this tree in orchards. Illustrations.

Institution : .....

Submitted : .....

TSITSUGIN, I.V.

Orchards can bear fruit every year. Nauka i pered. op. v sel'khoz. 6 no.11:38-40 N '56. (MLRA 10:1)

1. Starshiy sadovod Botanicheskogo sada AN SSSR.
(Fruit culture)

TSITSUGIN, I.V.

Potted dwarf fruit trees. Priroda 45 no.9:98-100 S '56. (MLRA 9:10)

1.Glavnyy botanicheskiy sad Akademii nauk SSSR, Moskva.
(Dwarf fruit trees) (Plants, Potted)

TSITSUGIN, I.V.

Mass grafting of aspen. Biul.Glav.bot.sada no.33:118 '59.
(MIRA 12:10)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR.
(Poplar) (Grafting)

TSITSUGIN, I.V.

New method for propagating tree roses. Priroda 48 no.6:105-106 Je '59. (MIRA 12:5)

1. Glavnyy botanicheskiy sad AN SSSR, Moskva.
(Roses)

USSR/Cultivated Plants - Ornamentali M-8

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91896

Author : Tsitsugin, I.V.
Inst : -
Title : Improving Aspen Shoots.

Orig Pub : Lesn. kh-vo, 1957, No 9, 81-82.

Abstract : By grafting the Lombardy poplar on young aspen growth it is possible to transform aspen thickets into beautiful curtains of poplars. 50-65% of the grafts become rooted. The author believes that dur to the effect of grafts, the aspen stocks will become resistant to medullary rot. -- R.I. Serebryannyy.

Card 1/1